

Contents—Volume 28, 1994

Current Microbiology

An International Journal

© Springer-Verlag New York Inc. 1994

Number 1, January 1994

Production of 3-Nitropropionic Acid by <i>Arthrinium</i> Species Ding-Ling Wei, Sheng-Chyi Chang, Shu-Chien Lin, Ming-Luen Doong, and Shung-Chang Jong	1
Molecular Cloning, Expression, and Characterization of a New Endoglucanase Gene from <i>Fibrobacter succinogenes</i> S85 Evelyne Forano, Véronique Broussolle, Geneviève Gaudet, and John A. Bryant	7
Cloning, Heterologous Expression, and Localization of a Novel Crystal Protein Gene from <i>Bacillus thuringiensis</i> serovar <i>japonensis</i> Strain Buihui Toxic to Scarabaeid Insects Ryoichi Sato, Katsuyoshi Takeuchi, Katsutoshi Ogiwara, Masayosi Minami, Yasuko Kaji, Nobukazu Suzuki, Hidetaka Hori, Shoji Asano, Michio Ohba, and Hidenori Iwahana	15
The <i>hupB</i> Gene of the <i>Azotobacter chroococcum</i> Hydrogenase Gene Cluster Is Involved in Nickel Metabolism Lisheng Du and Karl H. Tibelius	21
Phylogenetic Affiliations of <i>Rhodospirillum rubrum</i> and Related Species of Phototrophic Bacteria as Determined by Automated 16S rDNA Sequencing Akira Hiraishi	25
Molecular Cloning and Sequence Analysis of the Cellobiohydrolase I Gene from <i>Trichoderma koningii</i> G-39 Ta-Tung Wey, Tzong-Hsiung Hseu, and Lina Huang	31
Novel Narrow-Host-Range Vectors for Direct Cloning of Foreign DNA in <i>Pseudomonas</i> Rodolphe Boivin, Guy Bellemare, and Patrice Dion	41
Use of Monoclonal Antibody Blends in the Identification of Enteroviral Aseptic Meningitis Gary P. Leonardi and Patrick Costello	49
Characterization of Brevicin 27, a Bacteriocin Synthesized by <i>Lactobacillus brevis</i> SB27 V. Benoit, R. Mathis, and G. Lefebvre	53

Number 2, February 1994

In Vivo Phosphorylation of NADP ⁺ Glutamate Dehydrogenase in <i>Escherichia coli</i> Hsiu-Ping P. Lin and Henry C. Reeves	63
In Vivo Phosphorylation of Isocitrate Lyase in <i>Escherichia coli</i> and <i>Acinetobacter calcoaceticus</i> J. C. Hoyt, H.-P. P. Lin, and H. C. Reeves	67
Cholinesterase, Acid Phosphatase, and Phospholipase C of <i>Pseudomonas aeruginosa</i> Under Hyperosmotic Conditions in a High- Phosphate Medium Teresita A. Lisa, Cesar H. Casale, and Carlos E. Domenech	71
Near-Ultraviolet Radiation and Hydrogen Peroxide Modulate Intracellular Levels of Potassium and Thiols in <i>Escherichia coli</i> Galina V. Smirnova and Oleg N. Oktyabrsky	77
Participation of Putrescine in the Antiport Mechanism of Potassium Transport in <i>Escherichia coli</i> A. G. Tkachenko and A. A. Chudinov	81
Chlamydial Glycolipid Antigen: Extracellular Accumulation, Biological Activity, and Antibody Recognition Elizabeth S. Stuart, Karen M. Troidle, and A. B. MacDonald	85
Isolation and Purification of Cell Wall-Associated Arginine Carboxypeptidase from <i>Streptococcus mitis</i> ATCC 15909 Lars E. Linder, Marie-Louise Sund, and Helena Lönnies	91
Ribotypes of <i>Vibrio anguillarum</i> O1 from Italy and Greece Karl Pedersen, Giuseppe Ceschia, and Jens Laurits Larsen	97
Nucleotide Sequence of the Gene Coding for Non-Proteolytic <i>Clostridium botulinum</i> Type B Neurotoxin: Comparison with Other Clostridial Neurotoxins Roger A. Hutson, Matthew D. Collins, Alison K. East, and Daphne E. Thompson	101
Nitrogen Catabolite Regulation of Spiramycin Production in <i>Streptomyces ambofaciens</i> Sophie Untrau, Ahmed Lebrihi, Gérard Lefebvre, and Pierre Germain	111
Effect of Iron on Siderophore Production and on Outer Membrane Proteins of <i>Rhizobium leguminosarum</i> IARI 102 Harshad N. Patel, Ranjan N. Chakraborty, and Subodh B. Desai	119
Sensitivity of Spores and Growing Cells of <i>Bacillus thuringiensis</i> var <i>israeliensis</i> and <i>Bacillus sphaericus</i> to Osmotic Variations Adriana Cucchi and Carmen Sanchez Rivas	123

Number 3, March 1994

Metabolism of 2,4,6-Trinitrotoluene by a <i>Pseudomonas</i> Consortium under Aerobic Conditions Ramaraj Boopathy, John Manning, Carlo Montemagno, and Charles Kulpa	131
<i>Streptococcus shiloi</i> and <i>Streptococcus difficile</i> : Two New Streptococcal Species Causing a Meningoencephalitis in Fish Avi Eldar, Yitzhak Bejerano, and Herve Bercovier	139
A Conditional Expression Vector for the Cyanobacteria <i>Synechocystis</i> sp. Strains PCC6803 and PCC6714 or <i>Synechococcus</i> sp. Strains PCC7942 and PCC6301 Pierre Mermet-Bouvier and Franck Chauvat	145
Analysis of Electrophoretic Whole-Cell Protein Profiles as a Tool for Characterization of <i>Enterococcus</i> Species Vania Lucia Carreira Merquior, Jose Mauro Peralta, Richard R. Facklam, and Lucia Martins Teixeira	149
Properties of Two Bacteriocins Synthesized by <i>Leuconostoc</i> Strains Idwan Sudirman, Florence Mathieu, Valérie Benoit, and Gérard Lefebvre	155
Clone Q379 Immunoscreened from a Chinese HCV cDNA λ gt11 Library Zhongtian Qi and Terukatsu Arima	161
The Effect of Extracellular pH and Lactic Acid on pH Homeostasis in <i>Lactococcus lactis</i> and <i>Streptococcus bovis</i> Gregory M. Cook and James B. Russell	165
Cell Wall Polysaccharides of Four Strains of <i>Paecilomyces variotii</i> Jezabel Domenech, Alicia Prieto, Manuel Bernabe, and J. Antonio Leal	169
Extended Serotyping Scheme for <i>Vibrio cholerae</i> Toshio Shimada, Eiji Arakawa, Kenichiro Itoh, Tadayuki Okitsu, Akiyoshi Matsushima, Yoshio Asai, Shiro Yamai, Tamotsu Nakazato, G. Balakrish Nair, M. John Albert, and Yoshifumi Takeda	175
Temperature-Dependent Survival of Isolates of <i>Thiobacillus ferrooxidans</i> Wesley A. Hubert, Garry D. Ferroni, and Leo G. Leduc	179
Biodegradation of 2,4,6-Trinitrotoluene by <i>Phanerochaete chrysosporium</i> : Identification of Initial Degradation Products and the Discovery of a TNT Metabolite That Inhibits Lignin Peroxidases John A. Bumpus and Matthew Tatarko	185

Number 4, April 1994

Purification and Characterization of Pectinesterase Produced by a Strain of <i>Aspergillus niger</i> Maria C. Maldonado, Ana M. Strasser de Saad, and Danley Callieri	193
Taxonomic Status of Atypical <i>Lactobacillus sake</i> and <i>Lactobacillus curvatus</i> Strains Associated with Vacuum-Packaged Meat Spoilage Gary A. Dykes and Alexander von Holy	197
DNA, RNA, and Protein Synthesis in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 Adapted to Different Salt Concentrations Martin Hagemann, Sabine Fulda, and Hendrik Schubert	201
Transfer of Broad-Host-Range Antibiotic Resistance Plasmids in Soil Microcosms Gauri A. Naik, Lata N. Bhat, B. A. Chopade, and J. M. Lynch	209
Correlation of <i>Legionella pneumophila</i> Virulence with the Presence of a Plasmid Yehia Daaka, Yoshimasa Yamamoto, Thomas W. Klein, Catherine Newton, and Herman Friedman	217
Unaffected Nodulation and Nitrogen Fixation in Carbohydrate Pleiotropic Mutants of <i>Rhizobium meliloti</i> Jean-Pierre Hornez, Mohammed Timinouni, Claude Defives, and Jean-Claude Derieux	225
Purification of Collagen-Binding Proteins of <i>Lactobacillus reuteri</i> NCIB 11951 P. Aleljung, W. Shen, B. Rozalska, U. Hellman, Å. Ljungh, and T. Wadström	231
Selection and Properties of Spontaneous Mutants of <i>Listeria monocytogenes</i> ATCC 15313 Resistant to Different Bacteriocins Produced by Lactic Acid Bacteria Strains N. Rekhif, A. Atrih, and G. Lefebvre	237
Identification, Enrichment, and Isolation of <i>Thiothrix</i> spp. from Environmental Samples Robin L. Brignon, Gabriel Bitton, Stephen G. Zam, Harris W. Martin, and Bonnie O'Brien	243
NADH-Linked Fumarate Reductase and NADH Dehydrogenase Activities in <i>Fibrobacter succinogenes</i> Steven W. Meinhardt and Thomas L. Glass	247

Number 5, May 1994

Study of Purine Degradation in Aqueous Solutions by <i>Paracoccus denitrificans</i> Birgit M. Grohs and Benno Kunz	255
Activation of <i>Clostridium perfringens</i> Cytotoxic Enterotoxin(s) In Vivo and In Vitro: Role in Triggers for Sudden Infant Death Annette S. Mach and James A. Lindsay	261
Alterations Induced by Penicillin in the Protein Profile and Cell Structure of Group G <i>Streptococcus</i> Angela Christina Dias de Castro, Maria Nazareth Leal Meirelles, Angela Hampshire de Carvalho Santos, Veronica V. Vieira, Luis Henrique Rocha Leite, Luis Rodolpho Travassos, and Alane Beatriz Vermelho	269
Protease Activity in <i>Agaricus bisporus</i> During Periodic Fruiting (Flushing) and Sporophore Development Kerry S. Burton, John B.W. Hammond, and Takahisa Minamide	275
Expression of the <i>Zymomonas mobilis</i> Alcohol Dehydrogenase II (<i>adhB</i>) and Pyruvate Decarboxylase (<i>pdC</i>) Genes in <i>Bacillus</i> Maria de F.S. Barbosa and L.O. Ingram	279
Construction of Improved Vectors for Gene Cloning in <i>Micromonospora melanosporea</i> Milorad Kojic, Ljubisa Topisirovic, and Branka Vasiljevic	283
Transformation of <i>Vibrio vulnificus</i> by Electroporation Diane McDougald, Linda M. Simpson, James D. Oliver, and Michael C. Hudson	289
Fermentation Studies with Thermophilic <i>Archaea</i> in Pure Culture and in Syntrophy with a Thermophilic Methanogen Francesco Canganella and W. Jack Jones	293
Microbial Characterization of Thermophilic <i>Archaea</i> Isolated from the Guaymas Basin Hydrothermal Vent Francesco Canganella and W. Jack Jones	299
Pyruvate as a Substrate for Growth and Methanogenesis for <i>Methanosarcina barkeri</i> Basavapatna S. Rajagopal and Jean LeGall	307

Number 6, June 1994

Ability to Use Ampicillin as a Nitrogen Source by the Marine Cyanobacterium <i>Phormidium valderianum</i> BDU 30501 D. Prabakaran, M. Sumathi, and G. Subramanian	315
Studies on Iron Uptake and Its Effect on the Outer Membrane Proteins of <i>Pseudomonas stutzeri</i> RC-7 R.N. Chakraborty, H.N. Patel, and S.B. Desai	321
In Vitro Binding of <i>Bifidobacterium bifidum</i> DSM 20082 to Mucosal Glycoproteins and Hemagglutinating Activity I.F. Fontaine, E.A. Aissi, and S.J.-L. Bouquelet	325
Identification of a Novel Lectin in <i>Streptococcus pyogenes</i> and Its Possible Role in Bacterial Adherence to Pharyngeal Cells D. Gerlach, C. Schalén, Z. Tigyi, B. Nilsson, A. Forsgren, and A.S. Naidu	331
The <i>SAM2</i> Gene Product Catalyzes the Formation of S-Adenosyl-Ethionine from Ethionine in <i>Saccharomyces cerevisiae</i> Enrique Martínez-Force and Tahía Benítez	339
Dual Effect of Amino Acids on the Development of Intracellular Proteolytic Activity in the Irreversible Sporulation Phase of <i>Bacillus megaterium</i> Helena Kučerová, Marie Strnadová, Vladimír Vinter, Jaroslav Votruba, and Jiří Chaloupka	345
New O and H Antigens of <i>Plesiomonas shigelloides</i> and Their O Antigenic Relationships to <i>Shigella boydii</i> Toshio Shimada, Eiji Arakawa, Kenichiro Itoh, Yoshimasa Kosako, Kohaku Inoue, Yang Zhengshi, and Eva Aldova	351
Isolation and Characterization of a New Ruminal Bacteriophage Lytic to <i>Streptococcus bovis</i> Igor Štyriak, Alena Španová, Hana Montagová, and Vladimír Kmet'	355
Legionnaires' Disease Outbreaks and Cooling Towers with Amplified <i>Legionella</i> Concentrations Brian G. Shelton, W. Dana Flanders, and George K. Morris	359